

## CLAIMS

1. A multilayer capacitor comprising:  
a dielectric layer and  
two types of, that is, first and second, internal conductor layers insulated from each other by said dielectric layer and alternately arranged in a dielectric body,  
said multilayer capacitor characterized in that  
the first internal conductor layer is formed with at least one first cut part,  
the second internal conductor layer is formed with at least one second cut part, and  
due to said cut parts, each internal conductor layer is formed with at least two channel parts connected at an uncut end in the same plane and the channel parts adjoining each other in the same plane carry current flowing in the reverse directions.
2. The multilayer capacitor as set forth in claim 1, wherein the first conductor layer is formed with a first lead part and the second conductor layer is formed with a second lead part at a position different from said first lead part so that current flows in reverse directions between the channel parts formed at the first and second internal conductor layers adjoining each other across the dielectric layer.
3. The multilayer capacitor as set forth in claim 2, wherein said lead parts are formed so as to be led out to only one surface of said dielectric body.
4. The multilayer capacitor as set forth in claim 3, wherein said one surface of the dielectric body where said lead parts are led out to is formed with:  
a first terminal electrode connected to said first lead parts and  
a second terminal electrode insulated so as not to be directly connected with said first terminal electrode and connected to said second lead parts.
5. The multilayer capacitor as set forth in claim 4, wherein  
said dielectric body is a rectangular parallelepiped,  
a length of a side of said dielectric body running along the stacking direction of said dielectric layers is made longer than

a length of any other two sides running along a direction intersecting the side running along the stacking direction, and

said one surface of said dielectric body is formed with said first terminal electrode and second terminal electrode.

6. The multilayer capacitor as set forth in claim 5, wherein said one surface of said dielectric body is formed with said first terminal electrode and second terminal electrode so as to extend along said stacking direction substantially in parallel at a predetermined interval.

7. The multilayer capacitor as set forth in claim 6, wherein the first lead part is formed near one first end in the longitudinal direction of said dielectric layer, and the second lead part is formed near another second end in the longitudinal direction of said dielectric layer.

8. The multilayer capacitor as set forth in any one of claims 1 to 7, wherein the first and second cut parts for forming the channel parts in the first and second internal conductor layers adjoining each other across the dielectric layer are formed at substantially the same positions between the internal conductor layers adjoining each other.

9. The multilayer capacitor as set forth in any one of claims 2 to 7, wherein

a starting point of the first cut part formed in the first internal conductor layer starts from near the first lead part of said first internal conductor layer,

a starting point of the second cut part formed in the second internal conductor layer starts from near the second lead part of said second internal conductor layer, and

these cut parts are formed at substantially the same positions between the internal conductor layers adjoining each other.

10. The multilayer capacitor as set forth in claim 9, wherein the first cut part formed at the first internal conductor layer is substantially L-shaped,

the second cut part formed at the second internal conductor layer is a linear shape running through a substantial center of the dielectric layer along a longitudinal direction of said dielectric

layer, and

said first cut part and said second cut part are formed at substantially the same positions across said dielectric layer.

11. The multilayer capacitor as set forth in any one of claims 1 to 7, wherein

the first internal conductor layer is formed with a plurality of first cut parts,

the second internal conductor layer is formed with a plurality of second cut parts at positions corresponding to said first cut parts, and

uncut ends of corresponding cut parts across the dielectric layer are formed at opposite sides along the longitudinal direction of said cut parts.

12. The multilayer capacitor as set forth in claim 11, wherein said first and second cut parts are formed in the internal conductor layers to be alternately opposite in substantially perpendicular direction with respect to the longitudinal direction of said dielectric layer.

13. The multilayer capacitor as set forth in claim 11, wherein said first and second cut parts are formed in the internal conductor layers to be alternately opposite in direction of inclination with respect to the longitudinal direction of said dielectric layer.

14. The multilayer capacitor as set forth in any one of claims 1 to 7, wherein the width of said uncut ends is substantially equal to the width of said channels.

15. The multilayer capacitor as set forth in any one of claims 1 to 7, wherein the width of said cut parts is 100 to 200  $\mu\text{m}$ .

16. The multilayer capacitor as set forth in any one of claims 2 to 7, wherein

one of the channel parts formed by the first cut part is extended to form the first lead part and

one of the channel parts formed by the second cut part is extended to form the second lead part.

17. The multilayer capacitor as set forth in claim 2, wherein the first lead part is led out to a first side surface of said dielectric body, and

the second lead part is led out to another second side surface of said dielectric body facing said first side surface.

18. The multilayer capacitor as set forth in claim 17, wherein said first side surface is formed with a first terminal electrode connected to the first lead part of said first internal conductor layer, and

said second side surface is formed with a second terminal electrode connected to the second lead part of said second internal conductor layer.

19. The multilayer capacitor as set forth in claim 18, wherein said dielectric body is a rectangular parallelepiped, a length of a side of said dielectric body running along a stacking direction of said dielectric layers is made longer than a length of any other two sides running along a direction intersecting the side running along the stacking direction, and

opposite side surfaces of said dielectric body are formed with said first terminal electrode and second terminal electrode.

20. The multilayer capacitor as set forth in any one of claims 17 to 19, wherein the first and second cut parts for forming the channel parts of the first and second internal conductor layers adjoining each other across the dielectric layer are formed at substantially the same positions between the adjoining internal conductor layers.

21. The multilayer capacitor as set forth in claim 20, wherein a starting point of the first cut part formed in the first internal conductor layer starts from near the first lead part of said first internal conductor layer,

a starting point of the second cut part formed in the second internal conductor layer starts from near the second lead part of said second internal conductor layer, and

these cut parts are formed at substantially the same positions between the adjoining internal conductor layers.

22. The multilayer capacitor as set forth in claim 21, wherein said first and second cut parts are formed running through a center part of each internal conductor layer along a longitudinal direction of each internal conductor layer and the uncut ends of the cut parts are arranged alternately opposite from each other via the dielectric

layer.

23. The multilayer capacitor as set forth in any one of claims 17 to 19, wherein

one of the channel parts formed by said first cut part is extended so as to form the first lead part and

one of the channel parts formed by said second cut part is extended to form the second lead part.

24. The multilayer capacitor as set forth in claim 23, wherein a width of said channel parts and a width of said first and second lead parts are substantially the same.

25. The multilayer capacitor as set forth in claim 23, wherein a width of said first and second lead parts is larger than a width of said channel parts.

26. The multilayer capacitor as set forth in any one of claims 17 to 19, wherein said first and second cut parts are formed in the internal conductor layers to be alternately opposite in substantially perpendicular direction with respect to the longitudinal direction of said dielectric layer.

27. The multilayer capacitor as set forth in any one of claims 17 to 19, wherein said first and second cut parts are formed in the internal conductor layers to be alternately opposite in longitudinal direction of said dielectric layer.

28. The multilayer capacitor as set forth in any one of claims 17 to 19, wherein said first and second cut parts are formed in the internal conductor layers to be alternately opposite in direction of inclination with respect to the longitudinal direction of said dielectric layer.

29. The multilayer capacitor as set forth in any one of claims 17 to 19, wherein a width of said uncut ends is substantially equal to a width of said channels.

30. The multilayer capacitor as set forth in any one of claims 17 to 19, wherein a width of said cut parts is 100 to 200  $\mu\text{m}$ .